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(54) **GAS TURBINE ENGINE WITH INTEGRAL ACTUATION SYSTEM**

(57) An engine system includes a gas turbine engine and an actuation system (26). The gas turbine engine includes a compressor section, a combustor section, a turbine section (39) and a flowpath (34) extending through the compressor section, the combustor section and the turbine section (39). The actuation system (26) includes a fluid reservoir (108), a flow regulator (112) and a flow circuit (110). The flow regulator (112) is configured as or otherwise includes a barrier between the fluid res-

ervoir (108) and the flow circuit (110). The flow regulator (112) is configured to fluidly decouple the fluid reservoir (108) from the flow circuit (110) when the barrier is intact. The flow regulator (112) is configured to fluidly couple the fluid reservoir (108) with the flow circuit (110) when the barrier breaks. The flow circuit (110) is configured to direct gas from the fluid reservoir (108) into the flowpath (34) when the barrier breaks.

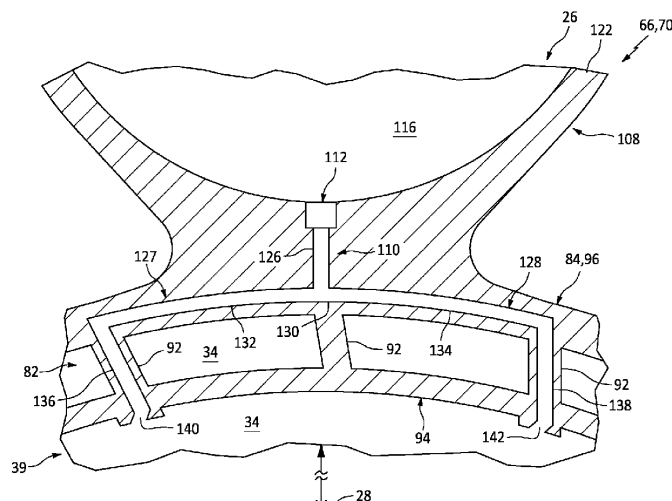


FIG. 4



PARTIAL EUROPEAN SEARCH REPORT

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 23 19 5225

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2 979 896 A (PERKINS JR HAROLD E ET AL) 18 April 1961 (1961-04-18) * column 1, line 18 - line 43 * * page 1; figure 1 * -----	1, 6-11, 13	INV. F02C7/272
A	GB 812 806 A (ICI LTD) 29 April 1959 (1959-04-29) * page 3, line 104 - line 120 * -----	1-13	
A	US 2 411 552 A (NEW WINSTON R) 26 November 1946 (1946-11-26) * figure 1 * * claim 1 * -----	1-13	
			TECHNICAL FIELDS SEARCHED (IPC)
			F02C

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.

Claims searched completely :

Claims searched incompletely :

Claims not searched :

Reason for the limitation of the search:

see sheet C

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Place of search	Date of completion of the search	Examiner
The Hague	11 April 2024	Burattini, Paolo
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		

EPO FORM 1503 03.82 (P04E07)



**INCOMPLETE SEARCH
SHEET C**

Application Number

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Claim(s) completely searchable:
1-13

Claim(s) not searched:
14, 15

Reason for the limitation of the search:

No reply to Rule 62a EPC Comm was received, so only claims 1-13 were searched.

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 23 19 5225

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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ORM P0459

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82